



Our Ref. No.: 42390P4214DC

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application for:

**Chunlin Liang**

Serial No.: 10/632,578

Filed: July 31, 2003

For: **A THERMAL CONDUCTING  
TRENCH IN A SEMICONDUCTOR  
STRUCTURE AND METHOD FOR  
FORMING THE SAME**

Examiner: Thanh V. Pham

Art Group: 2823

**RESPONSE TO OFFICE ACTION**

Mail Stop Non-Fee Amendment  
Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

Dear Examiner:

In response to the Office Action dated March 24, 2004, Applicants respectfully request entry of the election set forth below and consideration of the remarks that follow.

### RESPONSE TO RESTRICTION REQUIREMENT

Applicants elect Group I, Claims 1-21, drawn to methods, classified in class 438,

subclass 700 without traverse.

In addition, the Patent Office requests that the Applicants identify between two species of Group I, the first species related to method of forming trench contact and the second species related to forming a transistor structure. The Patent Office states that claim 1 is generic to claim 8 only (e.g., and thus not generic to claim 14). In response, Applicants select the method of forming trench contact. Specifically, Applicants select the first species related to method of forming trench contact includes claims 1-4, and 6-12.

However, Applicants also traverse the species restriction and assert that claims 1-4, 6-12, and 14-21 are generic. For example, each of claims 1-4, 6-12, and 14-21 is directed to filling a portion of a trench with a thermally conductive material, and patterning, depositing, or forming a contact or spacer portion over, to, or adjacent to a device structure, transistor structure, or feature thereof. Therefore, except for claims 5 and 13 which require forming a transistor structure, Applicants assert that claims 1-4, 6-12, and 14-21 are generic. Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Angelo J. Gaz, Reg. No. 45,907

### CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with sufficient postage in an envelope addressed to: First Class Mail with Non-Fee Amendments, Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450 on April 22, 2004.

Los Angeles, California 90025  
Seventh Floor  
12400 Wilshire Boulevard  
(310) 207-3800

Dated: April 22, 2004

Jean Svoboda





## TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

		Application No.	10/632,578
		Filing Date	July 31, 2003
		First Named Inventor	Chunlin Liang
		Art Unit	2823
		Examiner Name	Thanh V. Pham
Total Number of Pages in This Submission	6	Attorney Docket Number	42P4214DC

### ENCLOSURES (check all that apply)

<input checked="" type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached  <input checked="" type="checkbox"/> Amendment / Response <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s)  <input type="checkbox"/> Extension of Time Request  <input type="checkbox"/> Express Abandonment Request  <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> PTO/SB/08  <input type="checkbox"/> Certified Copy of Priority Document(s)  <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Basic Filing Fee <input type="checkbox"/> Declaration/POA  <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s)	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): <div style="border: 1px solid black; height: 40px; width: 100%;"></div>
Remarks		
<b>RESPONSE TO RESTRICTION REQUIREMENT</b>		

### SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Angelo J. Gaz, Reg. No. 45,907 BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP	
Signature		
Date	April 22, 2004	

### CERTIFICATE OF MAILING/TRANSMISSION

I hereby certify that this correspondence is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Mail Stop Non-Fee Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Typed or printed name	Jean Svoboda		
Signature		Date	April 22, 2004



<b>FEE TRANSMITTAL for FY 2004</b>		<i>Complete if Known</i>																																																																																																																																																																																	
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**SUBMITTED BY**

Name (Print/Type)	Angelo J. Gaz	Registration No. (Attorney/Agent)	45,907
Signature			
		Telephone	(310) 207-3800
		Date	04/22/04

Based on PTO/SB/17 (10-03) as modified by Blakely, Sokoloff, Taylor & Zafman (wtr) 02/10/2004.  
SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450